RESOURCE YIELDING IN A MULTIPLE APPLICATION ENVIRONMENT

ABSTRACT OF THE INVENTION

A method and system for allowing a single resource (e.g., a serial port) to

5   be shared by multiple applications in a cooperative manner. The first

application to use the resource defines a yield callback that is invoked when a

second application makes a request for the serial port. The callback allows the

first application to decide whether or not it will yield the resource to the second

application. If the first application grants the request, the second application is

10   allowed to use the resource; otherwise, the first application continues to use the

resource and the second application receives an error message. The first

application can be notified when the second application is finished with the

resource, so that the resource can be returned to the first application for use.